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UNITED STATES DEPARTMENT OF AGRICULTURE,  
FOREST SERVICE,  
WILLIAM B. GREELEY, Forester.

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# July Field Program, 1920

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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## OFFICE OF THE FORESTER.

WILLIAM B. GREELEY, Forester.

EDWARD A. SHERMAN, Associate Forester.

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EASTERN DIVISION.—J. G. PETERS, forest inspector, acting in charge; L. S. MURPHY, C. R. TILLOTSON, and J. A. MITCHELL, forest examiners.

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STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—J. G. PETERS, in charge; L. S. MURPHY and J. A. MITCHELL.

Collaborators.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; J. H. Foster, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; M. C. Hutchins, State fire warden, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; G. H. Wirt, chief forest fire warden, Harrisburg, Pa.; F. W. Besley, State forester, Baltimore, Md.; A. B. Hastings, assistant State forester, Charlottesville, Va.; C. W. Harding, forest, game, and fish warden, Elkins, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; ———, State forester, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Lansing, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.

## GRAZING.

WILL C. BARNES, assistant forester in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—WILLIAM R. CHAPLINE, inspector of graz-

ing. in charge; Clarence L. Forsling, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Enoch W. Nelson, grazing examiner in charge, Las Cruces, N. Mex.; Jack E. Marlowe, grazing assistant. Santa Rita Reserve: R. R. Hill, grazing examiner in charge, Tucson, Ariz.

## LANDS.

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OCCUPANCY.—C. H. SQUIRE, inspector of lands.

CLASSIFICATION.—W. J. MANGAN, executive assistant.

ACQUISITION.—W. W. ASHE, forest inspector.

## RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA, forest economist and assistant chief; RAPHAEL ZON, forest economist; HARRY IRION, office assistant.

DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.

FOREST INVESTIGATION.—J. KITTREDGE, Jr., acting in charge.

Studies.—E. H. Frothingham, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, and W. R. Mattoon.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

### Experiment Stations:

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PRIEST RIVER, KANIKSU NATIONAL FOREST.—JULIUS A. LARSEN, forest examiner, acting in charge, Priest River, Idaho.

PREMONT, PIKE NATIONAL FOREST.—C. G. BATES, silviculturist in charge, Box 1068, Colorado Springs, Colo.

WAGON WHEEL GAP, RIO GRANDE NATIONAL FOREST.—EDWIN H. JONES, Wagon Wheel Gap, Colo.

FORT VALLEY COCONINO NATIONAL FOREST.—G. A. PEARSON, silviculturist in charge, Flagstaff, Ariz.; S. S. Van Boskirk, forest examiner.

———.—C. F. KORSTIAN, forest examiner, Ogden, Utah.

———.—E. N. MUNNS, forest examiner, San Francisco, Calif.

WIND RIVER, COLUMBIA NATIONAL FOREST.—JULIUS V. HOFMANN, forest examiner in charge, Stabler (railroad point, Carson), Wash.



**FOREST PRODUCTS LABORATORY** (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; C. V. Mauldin, assistant engineer in forest products.

Publication of Results.—C. R. Thomas, in charge; Ray C. Tuttle, J. G. Woodburn.

**DERIVED PRODUCTS.**—L. F. HAWLEY, in charge.

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Wood Preservatives.—Ernest Bateman, George G. Town.

Ethyl Alcohol.—E. C. Sherrard, G. W. Blanco.

Cellulose Chemistry.—Samuel A. Mahood, D. E. Cable.

**PULP AND PAPER.**—OTTO KRESS, in charge.

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Utilization of By-Products.—V. P. Edwardes, C. E. Rupp.

Pulp and Pulpwood Decay.—C. J. Humphrey, Miss C. Audrey Richards.

**TIMBER MECHANICS.**—J. A. NEWLIN, in charge; L. J. Markwardt, assistant in charge; T. R. C. Wilson, J. S. Mathewson (on detail, Washington office), John M. Gahagan.

Comparison of Species.—L. J. Markwardt, R. F. Luxford.

Effect of Treatment on Strength.—T. R. C. Wilson, R. P. A. Johnson.

Fabricated Articles.—G. E. Heck.

Plywood Strength.—L. J. Markwardt, H. S. Grenoble, James R. McAteer.

Structural Timbers.—J. A. Newlin.

Aircraft Study.—J. A. Newlin, G. W. Trayer.

Container Investigations.—A. K. Armstrong, J. R. Watkins, C. A. Plaskett, H. L. Drake, P. M. Paine.

**TIMBER PHYSICS.**—ROLF THELEN, in charge.

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Wood technology.—A. Koehler, Miss Eloise Gerry, Miss Gertrude Griffin, M. C. Jensen.

**WOOD PRESERVATION.**—GEORGE M. HUNT, in charge; A. L. Heim, assistant.

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Glues and Plywood.—Matthew E. Dunlap, T. R. Traux, W. L. Jones, Alfred C. Lindauer, Frederick L. Browne, C. A. Harrison.

Preservation.—P. R. Hicks, J. D. MacLean.

**INDUSTRIAL INVESTIGATIONS.**— ———, in charge; D. G. White.

**PATHOLOGY** (in cooperation with Bureau of Plant Industry).—P. V. SIGGERS, acting in charge; E. E. Hubert.

**LABORATORY OPERATION.**—ARTHUR UPSON, in charge; Charles P. Juckem, executive clerk.

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Quarters.—L. R. Denicke.

ACCOUNTS AND SUPPLIES.—O. M. WOLD, fiscal agent, in charge; W. E. Thompson, purchasing agent.

FOREST PRODUCTS.—H. S. BETTS, in charge; W. D. Brush, R. K. Helphenstine, jr., J. S. Mathewson. E. F. McCarthy, collaborator.

ECONOMIC INVESTIGATIONS.————, in charge; A. F. HAWES; R. V. REYNOLDS; STANLEY L. WOLFE; A. H. PIERSON; A. B. STROUGH, collaborator, Albany, N. Y.

## ENGINEERING.

T. W. NORCROSS, acting chief engineer.

ROADS.—T. W. NORCROSS, in charge.

WATER POWER.—RALPH R. RANDELL, assistant engineer in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer in charge; C. A. KOLB, geographer.

Atlas.—G. B. BRUCE.

Drafting.—J. M. WITHEROW.

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PROOFS AND FORMS.—C. M. BALLARD, in charge; EDWARD BURKHOLDER.

EXHIBITS AND MOTION PICTURES.—C. A. LINDSTROM, in charge.

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## DISTRICT 1.

### NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, district forester; R. P. McLAUGHLIN, educational cooperation, information.

DISTRICT FOREST INSPECTORS.—C. K. McHARG, Coeur d'Alene, Idaho; Coeur d'Alene and St. Joe. J. A. FITZWATER, Sandpoint, Idaho; Ka-

niksu and Pend Oreille. W. W. WHITE, Missoula, Mont.; Bitterroot, Lolo, and Missoula. J. D. WARNER, Kalispell, Mont.; Blackfeet and Flathead. W. B. WILLEY, Great Falls, Mont.; Jefferson and Lewis and Clark.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge.

ACCOUNTS.—JOHN A. URBANOWICZ, chief of office and fiscal agent; CHAS. A. SKEELS, district fiscal agent.

OPERATION.—LEWIS C. STOCKDALE, assistant district forester; G. I. PORTER, executive assistant.

FIRE.—ELLERS KOCH, forest examiner.

IMPROVEMENTS.—D. L. BEATTY, national forest examiner; R. B. ADAMS, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—ELLERS KOCH, in charge; J. C. VAN HOOK, State forester, Helena, Mont.; I. H. NASH, State land commissioner, Boise, Idaho, collaborators.

MAINTENANCE.—O. C. BRADEEN, in charge.

FOREST MANAGEMENT.————, assistant district forester; M. H. WOLFF and H. R. FLINT, forest examiners.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ, F. J. KLOBUCHER.

TIMBER SALES.—Field Supervision, C. E. KNOUF, lumberman.

PLANTING.—Savenac Nursery, D. S. OLSON, planting assistant, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

INSECT CONTROL.————.

FOREST INVESTIGATIONS.—W. C. LOWDERMILK.

JAMES R. WEIR, consulting pathologist, 408 Columbia Building, Spokane, Wash.

GRAZING.—GLEN A. SMITH, assistant district forester.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.————, assistant district forester.

CLAIMS.—P. J. O'BRIEN, examiner; F. R. INGALS BEE, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Topographic Surveys.—J. B. YULE.

Drafting.—FRANK J. COOL.

Photography.—FRANK J. COOL.

Entry Surveys.—F. E. THIEME.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.



## NATIONAL FORESTS.

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- Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU) ; P. A. Wohlen, fire assistant.
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- Kaniksu.—J. E. RYAN, forest supervisor, Sandpoint (WU) ; C. R. Clark, forest examiner ; Frank Foltz, fire assistant.
- Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU) ; C. P. Fickes, deputy forest supervisor ; R. N. Cunningham, fire assistant.
- Pend Oreille.—L. G. HORNBY, forest supervisor, Sandpoint (WU) ; J. E. Breen, deputy forest supervisor ; R. R. Fitting, fire assistant.
- Selway.—F. J. JEFFERSON, forest supervisor, Kooskia (WU) ; A. J. Devan and F. T. Carroll, fire assistants.
- St. Joe.—W. W. WEBER, forest supervisor, Coeur d'Alene (WU) ; A. J. Roche, fire assistant.

## MONTANA.

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- Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU) ; W. L. Lay, deputy forest supervisor ; E. W. Hartwell, forest examiner.
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- Bitterroot.—MALLORY N. STICKNEY, forest supervisor, Missoula (WU, P, C) ; J. H. Clack, fire assistant.
- Blackfeet.—ELDON H. MYRICK, forest supervisor, Kalispell (WU).
- Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU) ; Howard Drake, lumberman ; F. E. Brown, fire assistant.
- Custer.—J. C. WHITHAM, forest supervisor, Miles City (WU, C) ; J. W. Stanton, deputy forest supervisor.
- Deerlodge.—FAY G. CLARK, forest supervisor, Butte (WU, P, C) ; T. A. Clapp and W. L. Baldwin, deputy forest supervisors ; J. C. Ketrledge, forest examiner.
- Flathead.—KENNETH WOLFE, forest supervisor, Kalispell (WU) ; C. S. Webb and A. L. Rossman, lumbermen ; C. H. Hash and H. L. Redlingshafer, fire assistants.
- Gallatin.—BURR W. CLARK, forest supervisor, Bozeman (WU, C) ; J. B. Taylor, forest examiner.

- Helena.**—ARTHUR H. ABBOTT, forest supervisor, Helena (WU, P).  
**Jefferson.**—A. C. ADAMS, forest supervisor, Great Falls (WU, P, C); J. C. DeCamp, deputy forest supervisor.  
**Kootenai.**—LESLIE F. VINAL, forest supervisor, Libby (WU); C. E. Sutton, forest examiner; J. K. Dwinelle, fire assistant.  
**Lewis and Clark.**—EDWARD J. YEOMANS, forest supervisor, Great Falls (WU, P, C); W. M. Rush, deputy forest supervisor.  
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**Madison.**—W. J. DERRICK, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.  
**Missoula.**—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P, C); Lee Stratton, deputy forest supervisor.

## WASHINGTON.

**Kaniksu.**—See Idaho.

## DISTRICT 2.

## ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

**ALLEN S. PECK**, district forester. Public Relations: W. I. HUTCHINSON in charge.

**LAW.**—Office of the Solicitor (Forest Service branch). **JAMES F. LAWSON**, assistant to the solicitor, in charge.

**ACCOUNTS.**—Q. R. CRAFT, chief of office and fiscal agent; **JOEL I. BUCKNER**, district fiscal agent.

**OPERATION.**—**FRED MORRELL**, assistant district forester; **JOHN MCCLAREN**, fire protection; **H. R. KYLIE**, telephone engineer and improvements; **PETER KEPLINGER**, educational training.

**STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.**—**JOHN MCCLAREN**, in charge; **THEO. SHOEMAKER**, State forester, Custer, S. Dak., collaborator.

**MAINTENANCE.**—C. A. NEEPER.

**FOREST MANAGEMENT.**—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; J. A. DONERY, lumberman.

**TIMBER SURVEYS AND INSECT CONTROL.**—W. J. PEARCE, forest examiner.

**PLANTING.**—FRED R. JOHNSON.

**GRAZING.**—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

**STUDIES.**—LYNN H. DOUGLAS, inspector of grazing in charge; JESSE M. MANN, grazing assistant.

**LANDS.**—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

**ENGINEERING.**—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

**MAPS AND SURVEYS.**—J. BURGESS.

Drafting.—H. E. SEALING.

Entry Surveys.—————.

Topographic Surveys.—J. BURGESS, acting.

**ROADS.**—FRED D. MENDENHALL, in charge; J. L. BROWNLEE.

**WATER POWER.**—FRED D. MENDENHALL.

## NATIONAL FORESTS.

### COLORADO.

**Arapaho.**—ALVE L. RICHEY, forest supervisor, Hot Sulphur Springs (WU).

**Battlement.**—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

**Cochetopa.**—FRED B. AGEE, forest supervisor, Saguache (WU); Clarence E. Taylor, forest examiner.

**Colorado.**—H. N. WHEELER, forest supervisor, Fort Collins (WU); M. J. Sweeney, forest examiner.

**Durango.**—H. EARL FRENCH, forest supervisor, Durango (WU).

**Gunnison.**—WILLIAM R. KREUTZER, district forest inspector, Gunnison (WU); Charles Steuart, forest examiner.

**Hayden.**—See Wyoming.

**Holy Cross-Sopris.**—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU); G. M. Hunter, deputy forest supervisor.

**Leadville.**—HAROLD L. BORDEN, forest supervisor, Leadville (WU, P).

**Montezuma.**—A. F. C. HOFFMAN, forest supervisor, Mancos (WU); Robert H. Easterbrooks, forest examiner.

**Pike.**—RESS PHILIPS, district forest inspector, Denver (WU, P); Wm. R. Fraser, deputy forest supervisor; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

**Rio Grande.**—R. E. CLARK, district forest inspector, Monte Vista (WU); Walter F. Bowers, deputy forest supervisor.

**Routt.**—RAY PECK, forest supervisor, Steamboat Springs (WU).

**San Isabel.**—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

**San Juan.**—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU); Chas. B. Mack, deputy forest supervisor.

**Uncompahgre.**—DWIGHT S. JEFFERS, forest supervisor, Delta (WU).

**White River.**—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU); Theodore Krueger, forest examiner.

## MICHIGAN.

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Beal Nursery, East Tawas.

## MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass  
Lake Nursery.

Superior.—C. A. DAHLGREN, forest supervisor, Ely (WU); Robert G.  
Schreck, forest examiner.

## NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton  
Nursery, Nenzil. Bessey Nursery, Harry C. Turner, for-  
est planting assistant, in charge, Halsey.

## SOUTH DAKOTA.

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Thos. H. Gill, deputy forest supervisor; L. E. Hitchcock,  
forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); John V.  
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## WYOMING.

Bighorn.—E. W. TINKER, forest supervisor, Sheridan (WU); Andrew G.  
Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, district forest inspector, Laramie  
(WU, P).

Shoshone.—ANDREW HUTTON, deputy forest supervisor. Cody (WU);  
E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

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## DISTRICT 3.

## SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albu-  
querque, N. Mex.

FRANK C. W. POOLER, district forester; EDWARD P. ANCONA, forest  
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**DISTRICT FOREST INSPECTORS.**—JOSEPH C. KIRCHER, T. T. SWIFT, Safford, Ariz.; Crook. FRANK E. ANDREWS, Santa Fe, N. Mex.; Santa Fe.

**LAW.**—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

**ACCOUNTS.**—ALBERT MORRIS, chief of office and fiscal agent; S. H. BUSCH, district fiscal agent.

**OPERATION.**—ALDO LEOPOLD, assistant district forester, in charge; JAMES F. MULLEN, national forest examiner, assistant chief; L. V. SLONAKER, telephone engineer.

**MAINTENANCE.**—H. B. HAMMOND.

**FOREST MANAGEMENT.**—R. E. MARSH, assistant district forester; D. M. LANG, lumberman; QUINCY RANGLES, forest examiner.

**INVESTIGATIONS.**—MARINUS WESTVELD, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

**GRAZING.**—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

**STUDIES.**—M. W. TALBOT, grazing examiner.

**RECONNAISSANCE.**—C. K. COOPERRIDER, grazing examiner.

**LANDS.**—JOHN D. JONES, assistant district forester; M. M. CHENEY, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

**ENGINEERING.**—C. A. LONG, district engineer.

**MAPS AND SURVEYS.**— ———.

Drafting.—F. E. LANDON.

Entry Surveys.—A. W. HENDRIX and L. R. MERCER, surveyors.

**ROADS.**—C. A. LONG, in charge. Trail Surveys and Minor Road Construction: J. C. MULDER, R. L. HUGHES.

**WATER POWER.**—C. A. LONG, in charge.

## NATIONAL FORESTS.

### ARIZONA.

**Apache.**—ROBERT J. SELKIRK, forest supervisor, Springerville (P); Alfred W. Voight, deputy forest supervisor.

**Coconino.**—EDWARD G. MILLER, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel, national forest examiner; James W. Girdner and John A. Adams, deputy forest supervisors.

**Coronado.**—HUGH G. CALKINS, forest supervisor, Tucson (WU); F. L. W. Grubb, deputy forest supervisor; Stanley F. Wilson, forest examiner.

**Crook.**—T. T. SWIFT, forest supervisor, Safford (WU).

**Prescott.**—H. BASIL WALES, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.



- Sitgreaves.**—T. C. HOYT, forest supervisor, Snowflake (P).  
**Tonto.**—W. H. GODDARD, forest supervisor, Roosevelt (WU) ; J. H. Sizer, deputy forest supervisor.  
**Tusayan.**—JAMES A. SCOTT, forest supervisor, Williams (WU, P) ; George W. Kimball, forest examiner.

## NEW MEXICO.

- Carson.**—EARL W. LOVERIDGE, forest supervisor, Taos (WU) ; Carroll R. Dwire, deputy forest supervisor.  
**Coronado.**—See Arizona.  
**Datil.**—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P) ; Robert Munro, national forest examiner ; Robert C. Salton, deputy forest supervisor.  
**Gila.**—FREDERIC WINN, forest supervisor, Silver City (WU, P) ; H. Norton Cope, deputy forest supervisor.  
**Lincoln.**—O. F. ARTHUR, forest supervisor, Alamogordo (WU) ; Simeon Strickland, lumberman ; William J. Anderson, deputy forest supervisor.  
**Manzano.**—WARD SHEPARD, forest supervisor, Albuquerque (WU, P) ; L. J. Putsch, deputy forest supervisor ; Charles H. Kissam, national forest examiner.  
**Santa Fe.**—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P) ; R. L. De Camp, deputy forest supervisor ; Gordon T. Backus, forest examiner. Las Gallinas Nursery. Herman Krauch, forest examiner.

## DISTRICT 4.

## INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, acting district forester ; JAMES E. SCOTT, national forest inspector, educational cooperation, information.

**LAW.**—Office of the Solicitor (Forest Service branch). E. S. FRENCH, assistant to the solicitor, in charge.

**ACCOUNTS.**—HOMER A. SEIP, district fiscal agent.

**OPERATION.**—CHAS. D. SIMPSON, assistant district forester ; CARL B. ARENTSON, forest supervisor, executive assistant ; R. B. ADAMS, telephone engineer.

**STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.**—CHAS. D. SIMPSON, in charge ; I. H. NASH, State land commissioner, Boise, Idaho, collaborator.

MAINTENANCE.—CLYDE M. GWIN.

FOREST MANAGEMENT.—C. B. MORSE, assistant district forester ; S. S. STEWART, forest examiner.

PLANTING.—Cottonwood Nursery, N. J. FETHEROLF, planting assistant in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester ; ERNEST WINKLER, inspector of grazing.

STUDIES.———— grazing examiner.

LANDS.————, assistant district forester ; R. E. GERY, assistant ; W. B. RICE, in charge of entry surveys ; S. B. LOCKE, forest examiner, fish and game.

RESEARCH.—F. S. BAKER, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer ; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.————, in charge.

Drafting.————, in charge.

ROADS.—J. P. MARTIN, in charge ; H. G. MCPHETERS, R. A. BROWN, and O. W. TORGESON, assistants.

WATER POWER.—J. P. MARTIN, in charge.

## EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge.

## NATIONAL FORESTS.

### ARIZONA.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

### IDAHO.

Boise.—E. GRANDJEAN, district forest inspector, Boise (WU) ; W. M. Campbell, deputy forest supervisor.

Cache.—See Utah.

Caribou.—EARL C. SANFORD, forest supervisor, Montpelier (WU) ; Robert W. Strong, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P) ; Andrew Casner, deputy forest supervisor.

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—R. D. GARVER, forest supervisor, Burley (WU) ; J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, district forest inspector, Emmett (WU) ; F. S. Moore and Francis Wallis, deputy forest supervisors.

- Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU) ; Ernest A. Renner, deputy forest supervisor.
- Sawtooth.—M. S. BENEDICT, district forest inspector, Hailey (WU) ; C. M. Mangun, deputy forest supervisor.
- Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU) ; John N. Kinney, deputy forest supervisor.
- Weiser.—LYLE F. WATTS, forest supervisor, Weiser (WU) ; T. V. Pearson, deputy forest supervisor.

## NEVADA.

- Humboldt.—C. E. FAYRE, district forest inspector, Elko (WU) ; Oscar W. Mink, deputy forest supervisor.
- Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).
- Toiyabe.—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

## UTAH.

- Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).
- Cache.—E. C. SHEPARD, district forest inspector, Logan (WU) ; Edmund B. S. Spencer, deputy forest supervisor.
- Dixie-Sevier.—WM. M. MACE, forest supervisor, Cedar City (WU).
- Fillmore.—JOHN RAPHAEL, district forest inspector, Richfield (WU) ; A. M. Woodbury, deputy forest supervisor.
- Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).
- La Sal.—CHAS. DEMOISEY, Jr., forest supervisor, Moab (WU).
- Manti.—J. W. HUMPHREY, forest supervisor, Ephraim (WU).
- Minidoka.—See Idaho.
- Powell-Sevier.—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).
- Uinta.—W. W. BLAKESLEE, forest supervisor, Provo (WU) ; Wallace M. Riddle, deputy forest supervisor.
- Wasatch.—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P) ; David A. Arrivee, deputy forest supervisor.

## WYOMING.

- Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU) ; E. E. McKee, deputy forest supervisor.
- Teton.—A. C. MCCAIN, district forest inspector, Jackson (WU).
- Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU) ; Lewis B. Koch, scaler, in charge of Standard Timber Co. sale.

## DISTRICT 5.

## CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, Terry Building, San Francisco, Calif.

PAUL G. REDINGTON, district forester.

FOREST PRODUCTS.—C. L. HILL.

PUBLIC RELATIONS.—R. F. HAMMATT, assistant district forester; PAUL J. FAIR, exhibits.

DISTRICT FOREST INSPECTORS.—R. H. CHARLTON, Los Angeles, Calif.; Angeles, Cleveland, and Santa Barbara. D. N. ROGERS, Quincy, Calif.; Plumas. R. L. P. BIGELOW, Nevada City, Calif.; Tahoe. M. A. BENEDICT, Northfork, Calif.; Sierra.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, chief of office and fiscal agent; P. A. TUCKER, district fiscal agent.

OPERATION.—ROBERT V. DEERING, assistant district forester.

FINANCE.—L. W. HESS, national forest inspector.

PERSONNEL AND INSPECTION.—PAUL P. PITCHLYNN, national forest examiner.

FIRE.—E. I. KOTOK, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—E. I. KOTOK, in charge; G. M. HOMANS, State forester, Sacramento, Calif., collaborator.

LAW ENFORCEMENT.—C. V. BRERETON, national forest examiner.

MAINTENANCE.—E. H. SCHMIEDER, in charge.

FOREST MANAGEMENT.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—PERRY EMIGH and J. H. PRICE.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; H. G. LACHMUND, CHARLES D. MEISSNER, and WILLIS W. WAGENER, assistants; FRANK SALTZMAN, superintendent, Experiment Station.

RESEARCH.—S. B. SHOW, forest examiner in charge; DUNCAN DUNNING, forest examiner.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.————, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer.



MAPS AND SURVEYS.—S. W. WYNNE, in charge; S. N. STONER, in charge field parties.

Drafting.—H. A. SEDELMAYER, acting.

ROADS.—F. H. FOWLER, in charge; J. C. DORT, F. D. BOWLUS.

Minor Roads, Trails, and Improvements.—S. W. WYNNE, C. E.

JORDON.

WATER POWER.—F. H. FOWLER, in charge.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

## NATIONAL FORESTS.

### CALIFORNIA.

Angeles.—SHIRLEY W. ALLEN, forest supervisor, Los Angeles (WU, P).  
California.—J. D. COFFMAN, forest supervisor, Alder Springs via Wil-  
lows (WU); B. H. Mace, deputy forest supervisor.

Cleveland.—S. A. BOULDEN, forest supervisor, San Diego (WU).

Eldorado.—E. F. SMITH, forest supervisor, Placerville (WU).

Inyo.—THOS. J. JONES, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—C. E. DUNSTON, forest supervisor, Red Bluff (WU); T. C. West,  
deputy forest supervisor; A. E. Wieslander, forest  
examiner.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Plumas.—D. N. ROGERS, district forest inspector, Quincy (WU); Richard  
A. Colgan, jr., forest examiner; George R. Orr, lumber-  
man.

Santa Barbara.—THOS. W. SLOAN, forest supervisor, Santa Barbara (P).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU);  
Wm. F. Derby, deputy forest supervisor.

Shasta.—J. R. HALL, forest supervisor, Sisson (WU); Belknap C. Gold-  
smith, forest examiner. Pilgrim Creek Nursery, Roscoe  
Weaver, forest examiner.

Sierra.—M. A. BENEDICT, district forest inspector, Northfork (WU via  
Friant-Exp. via Friant).

Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU); J. E. Elliott,  
deputy forest supervisor.

Tahoe.—R. L. P. BIGELOW, district forest inspector, Nevada City (WU);  
Geo. W. Lyons, forest examiner.

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

### NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Minden (WU).

Tahoe.—See California.



## DISTRICT 6.

## NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester.

PUBLIC RELATIONS.—JOHN D. GUTHRIE, in charge.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, chief of office and fiscal agent; H. J. WEIL, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; SHIRLEY BUCK, national forest inspector.

FIRE PROTECTION.—W. B. OSBORNE, JR., forest examiner.

IMPROVEMENT.—M. L. MERRITT, forest examiner.

TELEPHONE ENGINEERING.—C. M. ALLEN, telephone engineer.

LAW ENFORCEMENT.—T. M. TALBOTT, national forest examiner.

INSPECTION OF PROTECTION OF OREGON & CALIFORNIA RAILROAD LANDS.—R. H. CHAPLER, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—R. H. CHAPLER, in charge; F. A. ELLIOTT, State forester, Salem, Oreg.; F. E. PAPE, State forester and fire warden, Olympia, Wash., collaborators.

MAINTENANCE.—H. G. WHITNEY.

FOREST MANAGEMENT.—FRED AMES, assistant district forester.

TIMBER SALES.—THORNTON T. MUNGER, forest examiner.

LOGGING ENGINEERING.—BRUCE E. HOFFMAN, logging engineer; GEO. L. DRAKE and B. F. HEINTZLEMAN, forest examiners.

CHECK SCALING.—E. C. ERICKSON, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—C. J. CONOVER and GEORGE A. BRIGHT, forest examiners.

INSECT CONTROL.—A. J. JAENICKE, forest examiner.

FOREST PATHOLOGY.—JOHN S. BOYCE, consulting pathologist.

PLANTING AND FOREST INVESTIGATIONS.—J. F. KÜMMEL, W. H. LEVE, and R. H. WEIDMAN, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

LAND CLASSIFICATION.—A. H. WRIGHT and WELLMAN HOLBROOK (Alaska), national forest examiners.

LAND EXCHANGES.—RYLE TEED and ASHER IRELAND, national forest examiners.

ENGINEERING.—PHILIP H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Entry Surveys.—GEORGE W. ROOT.

ROADS.—PHILIP H. DATER, in charge; CECIL A. LORD.

WATER POWER.—E. W. KRAMER (temporarily on detail from district 1).

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, engineer and assistant engineer in forest products, Seattle.

## NATIONAL FORESTS.

### ALASKA.

Chugach.—C. H. FLORY, superintendent of Alaska forests, Ketchikan (SC, U. S. A., WU); Louis King, special fiscal agent, Ketchikan. C. T. BEACH, forest supervisor, Cordova (WU, P).

Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU); CHARLES T. GARDNER, forest supervisor, Ketchikan; B. F. Heintzleman and R. E. Kan Smith, forest examiners.

### OREGON.

Cascade.—N. F. MACDUFF, forest supervisor, Eugene (WU, P); Harvey E. Vincent, deputy forest supervisor; E. H. Hall, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner; H. M. Johnson, forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P).

Klamath.—See California.

Malheur.—WM. W. CRYDER, forest supervisor, John Day (WU via Baker-Exp. via Baker).

Minam.—J. F. IRWIN, forest supervisor, Baker (WU).

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T).

Oregon.—T. H. SHERRARD, district forest inspector, Portland (WU, P); CARL B. NEAL, forest supervisor; A. G. JACKSON and W. J. Paeth, forest examiners.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—E. H. MACDANIELS, forest supervisor, Grants Pass (WU, P); H. L. Plumb, deputy forest supervisor; H. A. Haefner, forest examiner.

- Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P).  
 Umatilla.—JOHN C. KUHN, forest supervisor, Pendleton (WU, P) ; R. A. Bottcher, deputy forest supervisor.  
 Umpqua.—W. F. RAMSDALL, forest supervisor, Roseburg (WU, P) ; George Bonebrake, deputy forest supervisor.  
 Wallowa.—NELSON J. BILLINGS, forest supervisor, Wallowa (WU) ; A. R. Wilcox, forest examiner.  
 Wenaha.—See Washington.  
 Whitman.—R. M. EVANS, district forest inspector ; I. E. JONES, forest supervisor, Baker (WU) ; C. W. Waterbury, lumberman ; Walter L. Dutton, grazing examiner.

## WASHINGTON.

- Chelan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T-Exp. via Wenatchee) ; G. E. Mitchell, deputy forest supervisor. Chelan.  
 Columbia.—T. H. BRUNDAGE, district forest inspector, Portland, Oreg. (WU, P) ; H. M. White, national forest inspector.  
 Colville.—C. C. REID, forest supervisor, Republic (WU, P) ; Lawrence B. Pagter, forest examiner.  
 Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T-Exp. via Wenatchee).  
 Olympic.—R. L. FROMME, district forest inspector ; O. F. ERICKSON, forest supervisor, Olympia (WU, P) ; A. A. Griffin, forest examiner.  
 Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P) ; E. J. Fenby and Geo. E. Griffiths, deputy forest supervisors ; F. B. Kellogg, forest examiner.  
 Snoqualmie.—W. G. WEIGLE, district forest inspector ; LEWIS A. TREEN, Jr., forest supervisor, Seattle (WU, P) ; Edward J. Hanzlik, forest examiner.  
 Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P) ; R. L. Campbell, deputy forest supervisor.  
 Wenaha.—JOHN C. KUHN, forest supervisor, Walla Walla (WU).  
 Wenatchee.—A. H. SYLVESTER, forest supervisor, Wenatchee (WU) ; F. B. Lenzie, grazing examiner.

## DISTRICT 7.

## EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, } H. O. STABLER, assistant district forester; JOHN  
ENGINEERING, } W. FOX, assistant engineer.

FOREST MANAGEMENT.—I. F. ELDRIDGE, assistant district forester.

LOGGING ENGINEERING.—E. V. CLARK.

GRAZING.—F. W. REED, district forester.

LANDS.—F. W. REED, district forester.

ACQUISITION.—RUDOLPH DIEFFENBACH, forest inspector.

LAW.—A. H. McCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; W. L. Newman, Woodstock, Va.; Alfred S. Grigg, Johnson City, Tenn.; Julius C. Fletcher, Lenoir, N. C.; John Awtrey, Clayton, Ga.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodville, N. H.; John C. Forney, Moulton, Ala.; Judson S. Bohannon, Double Springs, Ala.; John W. Van Hoy, Mena, Ark.

LAND EXCHANGE.—W. F. HILL, national forest examiner.

## NATIONAL FORESTS.

### ALABAMA.

**Alabama.**—BURLEY M. LUFFBURROW, acting forest supervisor, Moulton.

### ARKANSAS.

**Arkansas.**—CHAS. A. PLYMALE, forest supervisor, Hot Springs (WU, P); Wm. E. White, deputy forest supervisor; R. C. Huey, J. A. Bateman, and H. A. Regan, national forest examiners.

**Ozark.**—BEN F. VAUGHAN, forest supervisor, Russellville (WU); Wm. P. Dale, national forest examiner.

### FLORIDA.

**Florida.**—L. L. BISHOP, district forest inspector, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

### GEORGIA.

**Cherokee.**—See Tennessee.

**Nantahala.**—See North Carolina.

### MAINE.

**White Mountain.**—See New Hampshire.



## NEW HAMPSHIRE.

**White Mountain.**—J. J. FRITZ, forest supervisor, Gorham (WU, P) ; H. R. Carrier, deputy forest supervisor ; E. D. Fletcher, national forest examiner ; H. S. Davis, forest examiner ; E. A. Gardner, examiner of surveys.

## NORTH CAROLINA.

**Pisgah** (includes Boone National Forest, north half of Nantahala purchase area, and Pisgah National Forest and Game Preserve).—VERNE RHOADES, district forest inspector, Asheville (WU, P) ; Ira T. Yarnall and M. A. Mattoon, forest examiners ; Jas. Demman, examiner of surveys.

**Nantahala.**—R. W. SHIELDS, forest supervisor, Franklin (WU, P) ; S. M. Sleauklin, deputy forest supervisor ; C. E. Beaumont, forest examiner ; W. N. Sloan and A. A. Riemer, examiners of surveys.

## OKLAHOMA.

**Wichita.**—FRANK RUSH, forest supervisor, Cache (WU).

## PORTO RICO.

**Luquillo.**—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

## SOUTH CAROLINA.

**Nantahala.**—See North Carolina.

## TENNESSEE.

**Cherokee.**—H. G. SPAIN, forest supervisor, Athens (WU, P) ; Carl E. Muzzey, examiner of surveys.

**Unaka.**—H. L. RUSSELL, forest supervisor, Johnson City (WU, P) ; W. E. Hedges, national forest examiner.

## VIRGINIA.

**Natural Bridge.**—J. H. FAHRENBAUGH, forest supervisor, Buena Vista (WU, P) ; H. M. Sears, forest examiner ; A. R. Kinney and P. G. Jenney, examiners of surveys.

**Shenandoah.**—S. H. MARSH, district forest inspector, Harrisonburg (WU, P) ; Wm. H. Stoneburner, deputy forest supervisor ; S. H. Thompson, forest examiner ; B. R. Conrad, examiner of surveys.

**Unaka.**—See Tennessee.

## WEST VIRGINIA.

**Monongahela.**—H. L. JOHNSON, forest supervisor, Elkins (WU, P).



Service changes are omitted from this issue owing to numerous changes and insufficient data.

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With deep regret announcement is made of the death of Michael Joseph Doran, forest ranger, Tonto, April 12; Arthur L. Smith, forest ranger, Lemhi, March 27; Eric C. J. Pegel, draftsman (topographic), district 5, June 13.

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#### SERVICE PUBLICATIONS ISSUED.

*Department Bulletin 820.*—Jack Pine.

*Department Circular 112.*—Timber Depletion and the Answer.

*Unnumbered Publication.*—Timber Depletion, Lumber Prices, Lumber Exports, and Concentration of Timber Ownership—Report on Senate Resolution 311.

*Unnumbered Publication.*—Spend your Vacation in the National Forests.

*Unnumbered Publication.*—Road and Recreation Map—Oregon.